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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,467	06/25/2003	Gary K. Burma	H0003936 US	9362
128 7590 08/22/2007 HONEYWELL INTERNATIONAL INC. 101 COLUMBIA ROAD P O BOX 2245 MORRISTOWN, NJ 07962-2245			EXAMINER FORTUNA, JOSE A	
			ART UNIT 1731	PAPER NUMBER
			MAIL DATE 08/22/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/608,467	Applicant(s) BURMA, GARY K.	
	Examiner José A. Fortuna	Art Unit 1731	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) 1-20 and 26-33 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21-25, 34 and 35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

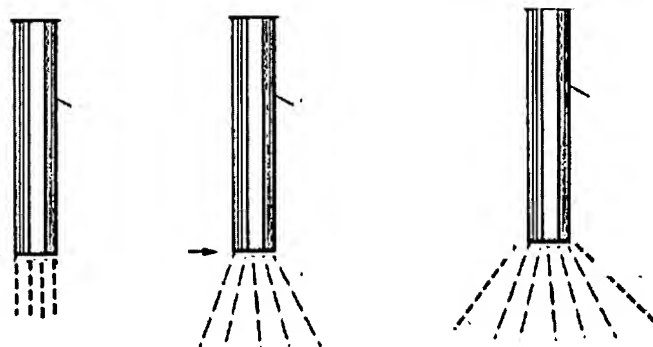
A person shall be entitled to a patent unless –

Claims 21-25, and 34-35 are rejected under 35 USC §102(b)/103(a). This rejection is set forth in the prior Office action mailed on September 07, 2006.

Response to Arguments

2. Applicant's arguments filed on August 09, 2007 have been fully considered but they are not persuasive.

- Applicants' arguments are not convincing, because they fail to clearly point out why it would have not been obvious to one of ordinary skill in the art to modify the cited references in view of their teachings, i.e., why it would not been obvious to one of ordinary skill in the art to individually control the shape and magnitude of each nozzle, based on the fact of new developments in the computer art, see below. Also the references teach that if a more accurate profile is desired the nozzles can be operated individually. Specifically Delight teaches that the each nozzle can be controlled to vary the magnitude and then the nozzles are adjusted to change the fan spray, see paragraph bridging columns 4 and 5. The fan spray changes reads in the change of shape, since changing the width of the spray changes the shape, see figure below.



Different fan sprays = different shape

Note that current court decision, KSR, forecloses the arguments that a specific teaching, suggestion, or motivation is required to support a finding of obviousness. See recent Board decision *Ex parte Smith*, --USPQ2d--, slip op. at 20, (Bd. Pat. App. & Interf. June 25, 2007) (Citing KSR, 82 USPQ2d at 1396). Also it has been held that references are evaluated by what they suggest to one versed in the art, rather than by their specific disclosures. In re Bozek, 163 USPQ 545 (CCPA) 1969. In this case, one of ordinary skill in the art would have sufficient motivation, in view of the suggestion of the cited references and the state of the art, to individually control the shape and magnitude of the sprays if a more accurate profile control is desired. See also, below for the previous response to arguments.

With regard to Lipponen et al. rejection, applicants argue that the cited reference does not teach that the actuators are individually operated to affect the magnitude and the shape of

the cross direction profile, because the reference seems to teach that the actuators move at the same time. This is considered unconvincing for the following reasons¹:

- The reference clearly indicates on page 6, lines 18-22 that the actuators can be operated independently if desired.
- Even if the nozzles are moved as a whole, since the flow of nozzle, i.e., the magnitude, is operated individually, the device reads on the claims as claimed, since each nozzle would vary the magnitude and shape of the profile. Moreover, it is the examiner contention that moving the nozzles individually is within the levels of ordinary skill in the art, if a more precise control of the profile is desired. Note that in view of the advances on microchips and microcomputers, it is not only easier to control individual equipment in any operation, but also economical. It has been held that “[A] combination of reference teachings may be obvious in the technological sense even though business or economic considerations would previously have counseled against such a combination.” *In re Farenkopf*, 713 F2d 714; 219 USPQ 1.

With regard to DeLigt, applicants argue that the reference teaches that the flow rate can be controlled, i.e., the magnitude, but that it, the reference, does not teach individually controlling the shape of the cross-machine profile, the arguments are not deemed convincing for the following reasons:

¹ Note that the rejection was under both 102(b) and/or 103(a).

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- The reference teaches that the each nozzle can be controlled to vary the magnitude and then the nozzles are adjusted to change the fan spray, see paragraph bridging columns 4 and 5.
- Moreover, it is the examiner contention that moving the nozzles individually is within the levels of ordinary skill in the art, if a more precise control of the profile is desired. Note that in view of the advances on microchips and microcomputers, it is not only easier to control individual equipment in any operation, but also economical. It has been held that “[A] combination of reference teachings may be obvious in the technological sense even though business or economic considerations would previously have counseled against such a combination.” *In re Farenkopf*, 713 F2d 714; 219 USPQ 1.

Conclusion

3. This is a RCE of applicant's earlier Application No. 10/608,467. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period

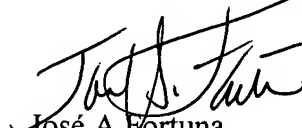
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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to José A. Fortuna whose telephone number is 571-272-1188. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P. Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


José A Fortuna
Primary Examiner
Art Unit 1731

JAF